

IFW

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Group: 1753  
Confirmation No.: 2920  
Application No.: 10/671,436  
Invention: METHOD AND DEVICE FOR  
ELECTROCHEMICAL  
IMMUNOASSAY OF MULTIPLE  
ANALYTES  
Applicant: Harvey B. Buck Jr. et al.  
Filed: September 25, 2003  
Attorney  
Docket: 5727-73535  
Examiner: Unknown

Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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**INFORMATION DISCLOSURE STATEMENT**

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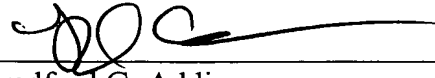
Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. Pursuant to the Patent Office's waiver of 37 C.F.R. 1.98 (a)(2)(i), copies of U.S. patent references and/or publications have not been provided; however, a copy of each foreign and/or other references are provided for review by the Examiner. Also provided is a copy of the PCT International Search Report for the related PCT application (PCT/US99/11855). The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

Please charge any fees that might be due in connection with this Information Disclosure Statement to our Deposit Account No. 10-0435. An extra copy of this Information Disclosure Statement is enclosed for that purpose.

Respectfully submitted,

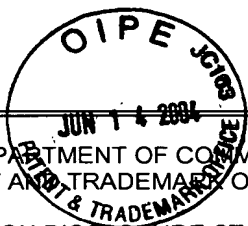
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A handwritten signature in black ink, appearing to read 'B. Addison', is written over a horizontal line.

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5727-73535

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	AB	4,323,536	Apr. 6, 1982	Columbus			
	AC	4,381,978	May 3, 1983	Gratzel et al.			
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	AF	4,711,245	Dec. 8, 1987	Higgins et al.			
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	AH	4,832,814	May 23, 1989	Root			
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	AK	4,963,245	Oct. 16, 1990	Weetall			

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	AL	EP 0 125 139 A2	Nov. 14, 1984	EPO			X
	AM	EP 0 150 999 A2	Aug. 7, 1985	EPO			X
	AN	EP 0 167 248 A3	Jan. 8, 1986	EPO			X
	AO	WO 86/03837	July 3, 1986	PCT			X
	AP	EP 0 299 780 A2	Jan. 18, 1989	EPO			X

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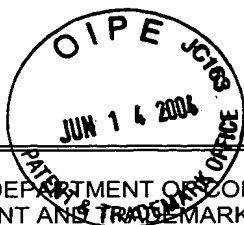
	AR	Chidsey et al., "Micrometer-Spaced Platinum Interdigitated Array Electrode: Fabrication, Theory, and Initial Use," <i>Anal. Chem.</i> , 58 601-677, 1986
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	AT	Aoki et al., Quantitative Analysis of Reversible, diffusion-Controlled Currents of Redox Soluble Species at Interdigitated Array Electrodes Under Steady-State Conditions," <i>J. Electroanal. Chem.</i> , 256, 269-82, 1988
	AU	Surridge et al., "Electron and Counterion Diffusion Constants in Mixed-Valent Polymeric Osmium Bipyridine Films," <i>J. Phys. Chem.</i> , 98, 917-923, 1994
	AV	Foster et al., "Synthesis, Characterization, and Properties of a Series of Osmium- and Ruthenium-Containing Metallopolymers," <i>Macromolecules</i> , 23, 4372-4377, 1990.
	AW	Zakeeruddin et al., "Towards Mediator Design: Characterization of Tris-(4,4'-Substituted-2,2'-Bipyridine) Complexes of Iron (II), Ruthenium (II) and Osmium (II) as Mediators for Glucose Oxidase of <i>Aspergillus niger</i> and other Redox Proteins," <i>J. Electroanal. Chem.</i> , 337, 253-283, 1992
	AX	Collin et al., "Anodic Electropolymerization of Films of Polypyrrole Functionalized with Metal Terpyridyl Redox Centres," <i>J. Electroanal. Chem.</i> , 286, 75-87, 1990
	AY	Heineman et al., "Strategies For Electrochemical Immunoassay," <i>Anal. Chem.</i> 57 (12), 1321-1331, 1985
	AZ	Sanderson et al., "Filar Electrodes: Steady-State Currents and Spectroelectrochemistry at Twin Interdigitated Electrodes," <i>Anal. Chem.</i> , 57, 2388-2393, 1985

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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	BB	5,120,420	June 9, 1992	Nankai et al.			
	BC	5,141,868	Aug. 25, 1992	Shanks et al.			
	BD	5,192,415	Mar. 9, 1993	Yoshioka et al.			
	BE	5,243,516	Sep. 7, 1993	White			
	BF	5,264,103	Nov. 23, 1993	Yoshioka et al.			
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	BJ	5,366,609	Nov. 22, 1994	White et al.			
	BK	5,405,511	Apr. 11, 1995	White et al.			

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	BM	EP 0 402 126 B1	Dec. 12, 1990	EPO			X
	BN	WO 91/16630 A1	Oct. 31, 1996	PCT			X
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	BR	Xu et al., "Heterogeneous Enzyme Immunoassay of Alpha-Fetoprotein in Maternal Serum by Flow-Injection Amperometric Detection of 4-Aminophenol," <i>Clin. Chem.</i> , 36 (11), 1941-1944, 1990
	BS	Thompson et al., "Comparison of Methods for Following Alkaline Phosphatase Catalysis: Spectrophotometric versus Amperometric Detection," <i>Anal. Biochem.</i> , 192, 90-95, 1991
	BT	Wollenberger et al., "Interdigitated Array Microelectrodes for the Determination of Enzyme Activities," <i>Analyst</i> , 119, 1245-1249, June 1994
	BU	Wollenberger, "Electrochemical Biosensors - Ways to Improve Sensor Performance," <i>Biotechnology and Genetic Engineering Reviews</i> , 13, 27-266, December 1995
	BV	Pishko et al., "Direct Electrical Communication Between Graphite Electrodes and Surface Adsorbed Glucose Oxidase/Redox Polymer Complex," <i>Angew. Chem. Int. Ed. Engl.</i> , 29, (1), 82-84, 1990
	BW	Garguilo et al., "Amperometric Sensors for Peroxide, Choline, and Acetylcholine Based on Electron Transfer Between Horseradish Peroxidase and a Redox Polymer," <i>Anal. Chem.</i> , 65, 523-528, 1993
	BX	Ohara et al., "Glucose Electrodes Based on Cross-Linked [Os(bpy) <sub>2</sub> C1] <sup>+2+</sup> Complexed Poly(1-Vinylimidazole) Films," <i>Anal. Chem.</i> , 65, 3512-3517, 1993
	BY	Paeschke et al., "Voltammetric Multichannel Measurements Using Silicon Fabricated Microelectrode Arrays," <i>Electroanalysis</i> , 8, (10), 891-898, 1996.
	BZ	Matsue, "Electrochemical Sensors Using Microarray Electrodes," <i>Trends Anal. Chem.</i> , 12 (3), 100-108, 1993

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	CD	5,438,271	Aug. 1, 1995	White et al.			
	CE	5,491,097	Feb. 13, 1996	Ribi et al.			
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	CG	5,589,326	Dec. 31, 1996	Deng et al.			
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	CJ						
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	CM	WO 92/14836 A1	Sep. 3, 1992	PCT			X
	CN	WO 97/34140 A1	Sep. 18, 1997	PCT			X (Abstract Only)
	CO	WO 86/04926 A1	Aug. 28, 1986	PCT			X
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	CR	Aoki et al., "Time-Dependence of Diffusion-Controlled Currents of a Soluble Redox Couple at Interdigitated Microarray Electrodes," <i>J. Electroanal. Chem.</i> , 266, 11-20, 1989
	CS	Nielson et al., "Reactions of Osmium Tetraoxide with Protein Side Chains and Unsaturated Lipids," <i>J. Chem. Soc., Dalton Transactions</i> , 1084-1088, 1979
	CT	Geraty et al., "Polymer Modified Electrodes, Part III. Characterisation, Electrochemical and Photochemical Properties of Ruthenium Containing Poly-N-Vinylimidazole Coatings," <i>J. Electroanal. Chem.</i> , 176, 389-393, 1984
	CU	International Search Report for PCT Application No. PCT/US99/11855, September 22, 1999, 4 pages.
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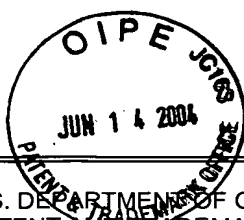
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	EL	EP 0 096 288 B1	Aug. 21, 1985	EPO			X
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	EP						

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